

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(Pursuant to NAC 445A.236)

Mike's Gas-A-Mart – NEV95019

August 2004

PERMITTEE NAME:

Mike's Gas-A-Mart
Gary Michelsen
Post Office Box 2010
Stateline, Nevada 89449

PERMIT NUMBER:

NEV95019 - Renewal

LOCATION:

217 Kingsbury Grade
Stateline, Douglas County, Nevada

Latitude: 38° 58' 03" North
Longitude: 119° 55' 57" West
Section 26, Township 13 North, Range 18 East, M.D.B.&M.

PUBLIC WATER SUPPLY:

Does not directly discharge to groundwater. This permit does not affect well head protection zones.

FLOW:

7,000 gallons per day – 30 Day Average
14,000 gallons per day – Daily Maximum

GENERAL:

A groundwater remediation system has been installed and operated at the subject site to remove petroleum contaminants released from a leaking underground storage tank. Extracted groundwater is treated using an air stripper designed for a flow rate of 10 gallons per minute (gpm), followed by two, 1000-pound, activated carbon polishing units configured in series. Sand and bag filters are used for sediment control, and the system is equipped with automated shut-off controls. The system has been in place since approximately 1996, but has not been operated since third quarter 2002.

While the design flow rate is 10 gpm (14,000 gallons per day), the groundwater recovery rate and the State of Nevada Temporary Water Rights Permit limit average flow to approximately 5 gpm, which is the limitation defining the 30-day average flow rate (7,000 gallons per day). Treated groundwater is discharged directly to the Douglas County Sewer Improvement District (DCSID) sanitary sewer system.

DISCHARGE CHARACTERISTICS

Remedial system specifications dictate 99.9% removal efficiency for petroleum hydrocarbon constituents. Discrete permit limitations for gross hydrocarbon content and primary petroleum constituents of concern are established in the current permit at:

Benzene	5 µg/L
Toluene	100 µg/L
Ethylbenzene	100 µg/L
Total Xylenes	200 µg/L
Methyl tertiary butyl ether	<2 µg/L

Total Petroleum Hydrocarbons 1 mg/L

μg/L: microgram per liter
mg/L: milligram per liter

Discharge concentrations in excess of permit limitations have not been reported or recorded in project files.

RECEIVING WATER CHARACTERISTICS:

The immediate discharge is to the DCSID Round Hill treatment plant, which ultimately discharges to groundwater of the State of Nevada in Carson Valley, Douglas County. Discharge limitations are established to protect groundwater quality, and are based, in part, on primary drinking water standards maximum contaminant levels.

PROPOSED LIMITATIONS:

During the period beginning on the effective date of this permit and lasting until the permit expires, the Permittee is authorized to discharge treated groundwater from:

Outfall 001: Discharge from the remedial treatment system to Douglas County Sewer Improvement District – Round Hill treatment facility (Permit NEV80033).

Effluent samples and/or measurements taken in compliance with the monitoring requirements specified below shall be collected at:

EFF: At the discharge from the treatment system, before entering the sewer system.

Authorized discharges shall be limited and monitored as follows:

EFFLUENT LIMITATIONS

PARAMETERS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	30-Day Average	Daily Maximum	Sample Location	Measurement Frequency	Sample Type
Flow Rate (gpd)	7,000	14,000	EFF	Continuous	Meter/Totalizer
Benzene (μg/L)	5	5	EFF	Monthly	Discrete
Toluene (μg/L)	100	100	EFF	Monthly	Discrete
Ethylbenzene (μg/L)	100	100	EFF	Monthly	Discrete
Total Xylenes (μg/L)	200	200	EFF	Monthly	Discrete
Methyl tertiary butyl ether (MTBE, μg/L)	< 2	< 2	EFF	Monthly	Discrete
Total Petroleum Hydrocarbons ¹ (mg/L)	1.0	1.0	EFF	Monthly	Discrete
Trichloroethene (TCE, μg/L)	5	5	EFF	Quarterly	Discrete
Tetrachloroethene (PCE, μg/L)	5	5	EFF	Quarterly	Discrete

gpd: gallons per day
µg/L: micrograms per liter
mg/L: milligrams per liter
<: less than

¹: Environmental Protection Agency (EPA) Solid Waste (SW) 846 Method 8015 gasoline and diesel range hydrocarbons.

Rationale:

Flow Rate: The flow rate is limited to the design capacity of the remediation treatment system and in accordance with allocated temporary water rights issued by the Division of Water Resources.

Benzene, trichloroethene, and tetrachloroethene (0.0006 pounds per day (#/day) as the daily maximum). Parameter limitations are based on the Primary Drinking Water Standard Maximum Contaminant Levels (MCL) for these compounds. Quarterly monitoring for trichloroethene and tetrachloroethene is included to ensure that these compounds are not present or drawn into the system from potentially unknown sources and inadvertently discharged without complete treatment.

Toluene, ethylbenzene, total xylenes, methyl tertiary butyl ether (0.0117, 0.0117, 0.0234, and less than 0.0002 #/day daily maximums, respectively). Parameter limitations for these compounds were established for the permit issued in June 1999 based on sound engineering judgment. Imposed limitations ensure adequate treatment of groundwater prior to discharge to the sewer system and accommodate the requests and pretreatment requirements of DCSID. Therefore, these limitations are preserved in the proposed permit.

Total Petroleum Hydrocarbons (0.1168 #/day daily maximum). This discrete parameter limitation is required to confirm proper operation and maintenance of the remediation system and to limit the discharge of gross petroleum products to the sewage treatment plant.

SCHEDULE OF COMPLIANCE:

Upon issuance, the Permittee shall implement and comply with the provisions of the permit and the following schedule of compliance, after approval by the Administrator, including in said implementation and compliance, any additions or modifications the Administrator may make in approving the schedule of compliance.

- **Upon issuance of the permit**, the Permittee shall achieve compliance with all discharge limitations;
- **Before system operations are resumed**, the Permittee shall submit:
 - a. Notice of pending operation with a detailed description of system operations to confirm the relevance and applicability of existing permit conditions; and
 - b. An updated Operations and Maintenance (O&M) Manual that includes, at a minimum, system/facility schematics, narrative capacity and operation specifications, a maintenance and cleaning schedule, inspection criteria, and procedures for compliance sampling. The O&M Manual shall also include a scaled site location map illustrating the location of the remediation system, the discharge location, and monitoring locations relative to nearby roads, highways, or other common or identifiable landmarks.

PROPOSED DETERMINATION:

The Division has made the tentative determination to renew the proposed permit, under the provisions prescribed, for a 5-year period. Under NAC 445A.232, this permit is classified as a *Discharge from Remediation, Dewatering, other than a discharge to groundwater from the dewatering of a mine, or from a Power Plant, a Manufacturing or Food Processing Facility or any Other Commercial or Industrial Facility – Less than 50,000 gallons of process water daily.*

PROCEDURES FOR PUBLIC COMMENT:

Notice of the Division's intent to issue a permit authorizing the facility to discharge to DCSID and groundwater of the State of Nevada, subject to the conditions contained within the permit, is being sent to the **Tahoe Daily Tribune** and the **Nevada Appeal** for publication. Notice is also mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice, and must be postmarked, faxed, or e-mailed by 5:00 p.m. on **October 2, 2004**. The comment period can be extended at the discretion of the Administrator. A public hearing on the proposed determination can be requested by the Applicant, any affected State, any affected interstate agency, the Regional Administrator, or any interested agency, person, or group of persons. The request must be filed within the comment period, and must indicate the interest of the person filing the request and the reason(s) why a hearing is warranted. Public hearings granted by the Division are conducted in accordance with NAC 445A.238. The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Prepared by:

Tamara J. Pelham
August 30, 2004

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